

**IN THE CLAIMS:**

Kindly amend claim 1 as follows.

Claim 1 (Currently Amended): A solenoid driver circuit comprising:

a control portion for applying a voltage less than an activation threshold value to a solenoid from a power supply when the solenoid is deactivated;

a detecting portion for detecting a current value when the voltage is applied;

a computing portion for computing a resistance value of the solenoid with the applied voltage and the detected current value; and

a constant-current control portion for maintaining ~~the~~ an operation current value constant during operation by controlling a solenoid driving voltage according to the calculated resistance value.